

## ABSTRACT

The invention provides isolated nucleic acids molecules, designated 13245 nucleic acid molecules, which encode a novel myotonic dystrophy type protein kinase. The invention also provides antisense nucleic acid molecules, recombinant expression vectors containing 13245 nucleic acid molecules, host cells into which the expression vectors have been introduced, and non-human transgenic animals in which a 13245 gene has been introduced or disrupted. The invention still further provides isolated 13245 proteins, fusion proteins, antigenic peptides and anti-13245 antibodies. Diagnostic methods utilizing compositions of the invention are also provided.